

# SAFETY DATA SHEET

## MESSENGER RIBONUCLEIC ACID (mRNA)

### Section 1: Identification

#### 1.1 Product Identification

**Catalog Number:** RP-A00070

**Product Name:** Cas13b (Cap1, m1Ψ)

**Chemical Name/Synonyms:** mRNA, messenger RNA

**Sizes:** 0.2 mg

#### 1.2 Uses

**Recommended Use:** Research use only. Cell biological research, laboratory chemicals, manufacture of substances

**Uses Advised Against:** Not for use in humans

#### 1.3 Details of Supplier of the Safety Date Sheet

##### Supplier Address

9911 willows Road NE, Suite 175

Redmond, WA 98052

USA

Company website: <https://www.genscript.com/>

**In emergency call 911.**

**For information about this SDS, use this department contact phone#:**

+1-425-559-9255

9 am - 5 pm PST, Monday - Friday

### Section 2: Hazard(s) Identification

**Hazard Classification:** Not a hazardous substance or mixture

**Signal Word(s):** Not a hazardous substance or mixture

**Hazard Statements:** No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

**Precautionary Statements:** Not applicable

**Description of other hazards:** Not applicable

### Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Ribonucleic acid	RNA	Not applicable	0.5 ~2 mg/mL
Water	H <sub>2</sub> O	7732-18-5	Not applicable
Sodium citrate	Sodium citrate, dihydrate Sodium citrate tribasic dihydrate Citric acid trisodium salt Trisodium citrate dihydrate	6132-04-3	1 mM

### Section 4: First-Aid Measures

#### 4.1 First Aid Measures

**General:** Move out of exposure area and consult a physician.

**After eye contact:** Check for and remove contact lenses. Immediately flush eyes thoroughly with copious amount of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact:** Immediately flush skin thoroughly with copious amounts of water. Wash skin with soap and water. Remove contaminated clothing and wash before wearing. Consult a physician.

**Puncture wound:** Flush wound with copious amounts of water for at least 15 minutes. Wash skin with soap and water. Allow wound to bleed freely. Consult a physician.

**Inhalation:** Remove to fresh air. If not breathing, provide artificial respiration. Consult a physician.

**After swallowing:** If swallowed, wash out mouth with water provided person is conscious. Loosen constrictive clothing. Consult a physician

**4.2. Most important symptoms/effects, acute and delayed**

No data available

**4.3. Indication of immediate medical attention and special treatment needed, if necessary**

No data available

**Section 5: Fire-Fighting Measures****Suitable (and unsuitable) extinguishing media:**

Suitable Media: Use water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

**Specific hazards arising from the chemical:**

No data available

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus and full protective gear if necessary

**Section 6: Accidental Release Measures****Personal precautions, protective equipment, and emergency procedures:**

Use personal protective equipment as described in section 8. Ensure adequate ventilation. Avoid direct contact with eyes or skin. Avoid breathing vapors, aerosols, gas or mists.

**Measures for environmental protection:**

No special environmental precautions necessary.

**Measures for cleaning/collecting:**

Prevent further spillage or leakage if safe to do so. To contain spill or leak of liquid, soak up with absorbent, inert material which should be transferred to properly labeled containers. This material and its container must be disposed of in accordance with local, state, and federal environmental regulations.

**Section 7: Handling and Storage****Precautions for safe handling:**

Avoid contact with eyes or skin. Use only with adequate ventilation. Avoid breathing aerosols, vapors, mists or gas. See Section 8 for personal protection.

**Conditions for safe storage:**

Store at or below -70°C. Avoid repeated freeze/thaw cycles. Aliquot if necessary using RNase-free equipment, reagents, pipet tips, tubes, and containers. Treat surfaces and gloves with RNase inhibitor. Avoid contaminating the material by breathing out or talking near open containers.

**Incompatibilities:** Strong oxidizing agents.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

No known occupational exposure limit values established by the region-specific regulatory bodies.

### 8.2 Appropriate Engineering Controls

Safety shower, eye bath, mechanical exhaust.

### 8.3 Individual Protection Measures

**General protective and hygienic measures:** Adhere to good industrial hygiene and safety practices.

**Breathing equipment:** Use in well ventilated areas.

**Protection of hands:** Wear suitable protective clothing and gloves.

**Eye protection:** Wear safety glasses with slid shields or chemical safety goggles.

## Section 9: Physical and Chemical Properties

**Form:** Liquid

**Odor:** Mild

**Odor threshold:** Not applicable

**pH:** Refer to COA for buffer pH information.

**Melting point/melting range:** No data available

**Boiling point/boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability:** No data available

**Upper/lower flammability or explosive limits:** No data available

**Auto ignition temperature:** No data available

**Danger of explosion:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** No data available

**Solubility in/Miscibility with water:** No data available

#### Section 10: Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under normal conditions.

**Conditions to avoid:** Incompatible materials. Ignition sources. Heat.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Burning can lead to release of toxic and irritating gases and vapors. Carbon dioxide. Carbon monoxide.

#### Section 11: Toxicological Information

##### 11.1 Acute toxicity

No data available

##### 11.2 Potential routes of exposure/potential health effects

**Skin:** Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

**Eye:** Redness. May cause slight irritation.

**Inhalation:** Avoid breathing vapors or mists. May cause irritation of respiratory tract.

**Ingestion:** Ingestion may cause irritation or burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, drowsiness, dizziness, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

##### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenic effects:** No data available

**Mutagenic effects:** No data available

**Reproductive toxicity:** No data available

**Sensitization:** No data available

**Target organs:** Kidneys, eyes, skin, respiratory system.

#### Section 12: Ecological Information (non-mandatory)

**12.1 Ecotoxicity**

No data available

**12.2 Mobility**

No data available

**12.3 Biodegradation**

No data available

**12.4 Bioaccumulation**

No data available

**12.5 Other adverse effects**

No data available

**Section 13: Disposal Considerations (non-mandatory)****13.1 Waste treatment methods**

**Relevant information:** Keep out of drains, ditches, reservoirs, sewers, and waterways.

**Disposal method:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator. Use a professional waste disposal service to dispose of this product.

**Contaminated packaging:** Dispose of as unused product.

**Section 14: Transport Information (non-mandatory)**

**This material is not considered hazardous for transport.**

**Section 15: Regulatory Information (non-mandatory)****15.1 US Federal Regulations**

**SARA Section 355 (extremely hazardous substances):** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**SARA Section 313 (specific toxic chemical listings):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):** Does not contain any components subject to reporting.

**TSCA (Toxic Substances Control Act):** Does not contain any components subject to reporting.

**Section 16: Other Information**

**SDS date of preparation/update:** 22-October-2025

PUBLIC