

Rev03
Update: Dec,14,2021

DATASHEET

DKK-1, Mouse

Cat. No.: Z03289

Product Introduction

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| Species | Mouse |
| Protein Construction | DKK-1 (Ser30-His272) Accession # O54908 |
| Purity | > 95% as analyzed by SDS-PAGE |
| Endotoxin Level | < 0.2 EU/μg of protein by gel clotting method |
| Biological Activity | ED ₅₀ < 6.0 μg/ml, measured in stimulation of alkaline phosphatase activity using CCL-226 cells. |
| Expression System | CHO |
| Apparent Molecular Weight | 19~20 kDa, on SDS-PAGE under reducing conditions. |
| Formulation | Lyophilized after extensive dialysis against PBS. |
| Reconstitution | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml. |
| Storage & Stability | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

Background

Target Background : Dickkopf related protein 1 (DKK-1) is a chemokine that belongs to the DKK protein family, which also includes DKK-2, DKK-3 and DKK-4. DKK-1 was originally identified as a Xenopus head forming molecule that behaves as an antagonist for Wnt signaling. It is one of the most up-regulated genes during androgen-potentiated balding, with DKK-1 messenger RNA up-regulated a few hours after DHT treatment of hair follicles at the dermal papilla in vitro. Neutralizing bodies against DKK-1 reverses DHT effects on outer root sheath keratinocytes. DKK-1 expression is attenuated by L-threonate, a metabolite of ascorbate in vitro. DKK-1 promotes LRP6 internalization and degradation as it forms a ternary complex with the cell surface receptor Kremen. DKK-1 not only functions in head formation during development, but also regulates joint remodeling and bone formation indicating its potential role in the pathogenesis of rheumatoid arthritis and multiple myeloma.

Synonyms : Dickkopf-1; DKK-1

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.