Product Datasheet

RecombinantDKK-1,Mouse (orb1494754)

Description	Dickkopf related protein 1 (DKK1) 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.Recombinant Mouse Dickkopf-related protein 1 produced in CHO cells is a polypeptide chain containing 243 amino acids. A fully biologically active molecule, rmDKK-1 has a molecular mass of 19~20 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant Mouse Dickkopf-related protein 1 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, Mouse Dickkopf-related protein 1 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH2O or PBS at 100 μg/ml.

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Protein Sequence	SATLNSVLINSNAIKNLPPPLGGAGGQPGSAVSVAPGVLYEGGNKYQTLDNYQPYPCAEDEE CGSDEYCSSPSRGAAGVGGVQICLACRKRRKRCMRHAMCCPGNYCKNGICMPSDHSHFPR GEIEESIIENLGNDHNAAAGDGYPRRTTLTSKIYHTKGQEGSVCLRSSDCAAGLCCARHFWSKICKPVLKEGQVCTKHKRKGSHGLEIFQRCYCGEGLACRIQKDHHQASNSSRLHTCQRH
Purity	> 95% as analyzed by SDS-PAGE.
Source	CHO
MW	19-20 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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