

Overview

Synonyms	Dickkopf-1
Description	<p>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 <i>Xenopus</i> 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 <i>in vitro</i>. 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 <i>in vitro</i>. 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.</p> <p>Recombinant Mouse Dickkopf-related protein 1 produced in <i>CHO</i> 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.</p>
Accession No	O54908
Source	<i>CHO</i>
Biological Activity	ED ₅₀ < 6 µg/ml, measured in stimulation of alkaline phosphatase activity using CCI-226 cells.
Sequence	Ser ³⁰ -His ²⁷² (Accession #: O54908)

Properties

Measured Molecular Weight	19-20 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse Dickkopf-related protein 1 remains stable up to 6 months at lower than -70°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

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