Recombinant Mouse Noggin (NOG)

Cat No:HR2R2209

For research use only

Overview

Quantity	20 ?g
Gene Symbol	NOG
Gene ID	18121
Accession	P97466
Alternative Name	Noggin, Nog
Species	Mouse
Source	E. coli
Description	Noggin is a secreted homodimeric glycoprotein that binds to ligands of the TGF-beta family (BMPs) and regulate their activity by inhibiting their access to signaling receptors. Mature human Noggin protein contains an N-terminal acidic region, a central basic heparin-binding segment and a C-terminal cysteine knot structure. Noggin binds different BMPs with variable affinities, antagonizing specific BMPs during skeletal development. Noggin is expressed in defined areas of the adult central nervous system and peripheral tissues such as lung, skeletal muscle and skin. Targeted deletion of Noggin in mice is known to result in severely malformed skeletal system and prenatal death while over-expression of Noggin in mature osteoblasts has been associated with severe osteoporosis.
Functions	The ED50 as determined by induced alkaline phosphatase secretion in ATDC cells was determined to be ? 2.0 ng/mL
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS (pH 7)
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	23
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.