

GRB2 Human

*Growth Factor Receptor-Bound Protein 2 Human Recombinant
RCP0964*

Product Overview

Name GRB2 Human

Description

Growth Factor Receptor-Bound Protein 2 Human Recombinant

Accession (Primary) [P62993](#)

Synonyms

Gremlin-1 isoform 1, CKTSF1B1, DAND2, DRM, GREMLIN, IHG-2, PIG2, GREM1, Cell proliferation-inducing gene 2 protein, Cysteine knot superfamily 1, BMP antagonist 1, DAN domain family member 2, Down-regulated in Mos-transformed cells protein, Increased in high glucose protein 2.

Introduction

GREM1 belongs to the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists comprise cystine knots and usually form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which GREM1 belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein is because of its direct binding to BMP proteins. As an antagonist of BMP, GREM1 takes a place in regulating organogenesis, body patterning, and tissue differentiation. In mouse, GREM1 has been shown to convey the sonic hedgehog (SHH) signal from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively merged transcript variants encoding different isoforms have been found for this gene.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The GREM1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS KKKGSQG AIPPPDKAQH NDSEQTQSPQ QPGSRNRGRG QGRGTAMPGE
EVLESSQEAL HVTERKYLKR DWCKTQPLKQ TIHEEGCNSR TIINRFCYGQ CNSFYIPRHI RKEEGSFQSC
SFCKPKKFTT MMVTLNCPPEL QPPTKKKRVV RVKQCRCISI DLD.

Precautions

GRB2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P62993](#))