InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

Human Notum Protein (C-His)

Catalog Number: 605901, 605902
Size: 25 ug, 100 ug
Target Name: Notum, Palmitoleoyl-protein carboxylesterase NOTUM
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Purified
Expression Host: CHO
Species: Human
Accession Number: Q6P988
Sources: Recombinant Human Notum (Ser20-Ser496) with C-terminus His tag was expressed in CHO cells
Molecular Weight: This protein has a predicted molecular weight of 54.5 kDa. Under DTT-reducing conditions, the protein migrates at approximately 50-60 kDa on SDS-PAGE.
Affinity Tag: C-His
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level: Not tested
Protein Concentration: 25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

Notum is a secreted carboxylesterase enzyme that acts as a negative regulator of the Wnt signaling pathway. It plays a crucial role in development, tissue homeostasis, and regeneration by modulating Wnt activity. Notum inhibits Wnt signaling by removing an essential lipid modification (palmitoleate) from Wnt proteins, in this manner preventing their binding to receptors and subsequent activation of downstream pathways. Dysregulation of Notum has been linked to various diseases, including cancer and degenerative disorders, making it a promising target for therapeutic intervention..

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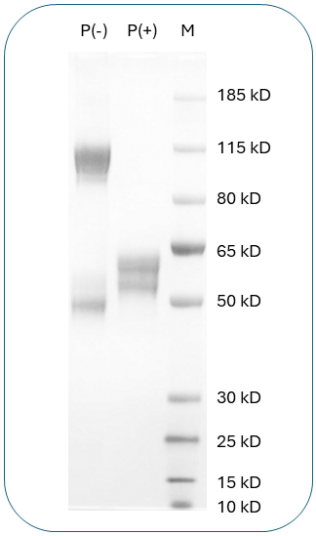

Purified Human Notum Protein (C-His) on SDS-PAGE under reducing (P+) and non-reducing (P-) conditions. The purity of the purified protein appears to be greater than 95% based on reducing condition.