

## Notum Protein, Human (C330S, CHO, His)

<b>Cat. No.:</b>	HY-P79357
<b>Synonyms:</b>	Palmitoleoyl-protein carboxylesterase NOTUM; NOTUM; hNOTUM
<b>Species:</b>	Human
<b>Source:</b>	CHO
<b>Accession:</b>	Q6P988 (S81-T451, C330S)
<b>Gene ID:</b>	147111
<b>Molecular Weight:</b>	Approximately 36-45 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<p>SAQQLNEDLR    LHLLLNNTSVT    CNDGSPAGYY    LKESRGSRRW</p> <p>LLFLEGGWYC    FNRENCDSRY    DTMRRLMSSR    DWPRTRTGTG</p> <p>ILSSQPEENP    YWWNANMVFI    PYCSSDVWSG    ASSKSEKNEY</p> <p>AFMGALIIQE    VVRELLGRGL    SGAKVLLLAG    SSAGGTGVLL</p> <p>NVDRVAEQLE    KLGYPAIQVR    GLADSGWFLD    NKQYRHTDCV</p> <p>DTITCAPTEA    IRRGIRYWNG    VVPERCRRQF    QEGEEWNCFF</p> <p>G Y K V Y P T L R S    P V F V V Q W L F D    E A Q L T V D N V H    L T G Q P V Q E G L</p> <p>R L Y I Q N L G R E    L R H T L K D V P A    S F A P A C L S H E    I I I R S H W T D V</p> <p>Q V K G T S L P R A    L H C W D R S L H D    S H K A S K T P L K    G C P V H L V D S C</p> <p>P W P H C N P S C P    T</p>
<b>Biological Activity</b>	Measured by its esterase activity. The specific activity is 1118.156 pmol/min/μg, as measured under the described conditions.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Notum is a carboxylesterase that functions as a critical negative regulator of the Wnt signaling pathway. This enzyme plays a specific role in mediating the depalmitoleoylation of WNT proteins. The serine palmitoleoylation of WNT proteins is essential for their efficient binding to frizzled receptors, which is a crucial step in Wnt signaling activation. By catalyzing the removal of palmitoleate moieties from WNT proteins, Notum attenuates Wnt signaling, contributing to the fine-tuned regulation of this pathway. It has to emphasize Notum's significance in modulating Wnt signaling by targeting the lipid modifications of WNT proteins, highlighting its role as a key regulatory factor in this essential cellular pathway.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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