

## GPR157 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702305
Synonyms:	G-protein coupled receptor 157
Species:	Human
Source:	E. coli Cell-free
Accession:	Q5UAW9 (M1-T335)
Gene ID:	80045
Molecular Weight:	39.4 kDa

### PROPERTIES

#### AA Sequence

M Q P S P P P T E L	V P S E R A V V L L	S C A L S A L G S G	L L V A T H A L W P
D L R S R A R R L L	L F L S L A D L L S	A A S Y F Y G V L Q	N F A G P S W D C V
L Q G A L S T F A N	T S S F F W T V A I	A L Y L Y L S I V R	A A R G P R T D R L
L W A F H V V S W G	V P L V I T V A A V	A L K K I G Y D A S	D V S V G W C W I D
L E A K D H V L W M	L L T G K L W E M L	A Y V L L P L L Y L	L V R K H I N R A H
T A L S E Y R P I L	S Q E H R L L R H S	S M A D K K L V L I	P L I F I G L R V W
S T V R F V L T L C	G S P A V Q T P V L	V V L H G I G N T F	Q G G A N C I M F V
L C T R A V R T R L	F S L C C C C C S S	Q P P T K S P A G T	P K A P A P S K P G
E S Q E S Q G T P G	E L P S T		

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Storage & Stability

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.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

GPR157 Protein, an orphan receptor, serves as a key regulator in the promotion of neuronal differentiation within radial glial progenitors (RGPs). Its functional role is facilitated by a G(q)-protein, which, in turn, activates a phosphatidylinositol-

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calcium second messenger, orchestrating the intricate signaling pathways involved in the process of neuronal differentiation.

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

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