

HDFP977

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## Product Information

<b>Product SKU:</b>	HDFP977	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	G37L1	<b>Tag:</b>	C-Flag&Strep Tag		

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## Additional Information

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	O60883
<b>Molecular Weight:</b>	The human full length G37L1-Strep protein has a MW of 52.8 kDa		

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## Protein Information

**Background:** G-protein coupled receptor (PubMed:27072655). Has been shown to bind the neuroprotective and glioprotective factor prosaposin (PSAP), leading to endocytosis followed by an ERK phosphorylation cascade (PubMed:23690594). However, other studies have shown that prosaposin does not increase activity (PubMed:27072655, PubMed:28688853). It has been suggested that GPR37L1 is a constitutively active receptor which signals through the guanine nucleotide-binding protein G(s) subunit alpha (PubMed:27072655). Participates in the regulation of postnatal cerebellar development by modulating the Shh pathway (By similarity). Regulates baseline blood pressure in females and protects against cardiovascular stress in males (By similarity). Mediates inhibition of astrocyte glutamate transporters and reduction in neuronal N-methyl-D-aspartate receptor activity (By similarity).[UniProtKB/Swiss-Prot Function]

**Synonyms:** ET(B)R-LP-2, ETBR-LP-2, ETBRLP2

**Protein Description:** Human G37L1-Strep full length protein-synthetic nanodisc

**Formulation:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Contact Details | Dublin, Ireland**

**Email:** techsupport@assaygenie.com | **Web:** [www.assaygenie.com](http://www.assaygenie.com)

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**Protein Pathways:** GPCRDB Class A Rhodopsin-like.

**Protein Families:** GPCR, Transmembrane, Druggable Genome.

**Usage:** Research use only

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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