

## Product datasheet for **TP710156**

### PTCH1 (NM\_000264) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human patched homolog 1 (Drosophila) (PTCH1), transcript variant 1b, residues 770-1027, with C-terminal DDK tag, expressed in sf9, 20ug
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC216999, encoding the region(Met-Arg770-Trp1027) of Homo sapiens PTCH1
Tag:	C-DDK
Predicted MW:	30.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, 100 mM glycine, pH 8.0, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000255</a>
Locus ID:	5727
UniProt ID:	<a href="#">Q13635</a>
RefSeq Size:	6825
Cytogenetics:	9q22.32
RefSeq ORF:	4341
Synonyms:	BCNS; NBCCS; PTC; PTC1; PTCH



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**Summary:**

This gene encodes a member of the patched family of proteins and a component of the hedgehog signaling pathway. Hedgehog signaling is important in embryonic development and tumorigenesis. The encoded protein is the receptor for the secreted hedgehog ligands, which include sonic hedgehog, indian hedgehog and desert hedgehog. Following binding by one of the hedgehog ligands, the encoded protein is trafficked away from the primary cilium, relieving inhibition of the G-protein-coupled receptor smoothed, which results in activation of downstream signaling. Mutations of this gene have been associated with basal cell nevus syndrome and holoprosencephaly. [provided by RefSeq, Aug 2017]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:**

Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

**Product images:**