



Recombinant Protein Technical Manual
Recombinant Human Chitotriosidase/CHIT1 Protein
(His Tag)
RPES0470

Product Data:

Product SKU: RPES0470

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q13231

Protein Information:

Molecular Mass: 50.4 kDa

AP Molecular Mass: 54 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Chitotriosidase; Chitinase; CHIT1;CHI3;CHIT;CHITD

Immunogen Information:

Sequence: Ala22-Asn466

Background:

Chitotriosidase (CHIT1) is a glycoprotein that belongs to the Glycosyl Hydrolase 18 family and Chitinase class II subfamily. It is secreted by cultured macrophages and serves to degrade chitin, chitotriose and chitobiose. CHIT1 may participate in the defense against nematodes and other pathogens. It is highly expressed in the plasma of patients with Gaucher's disease type I, which can be used as diagnostic aid and to evaluate the success of treatment that brings levels back to normal. The amino acid sequence of human CHIT1 is 99%, 76%, 75% and 55% identical to that of chimpanzee, rat, mouse and fruit fly, respectively.