

Recombinant Human CHI3L1 protein(N-His)

Catalog Number:PKSH034182



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	ASRT7;CGP-39;GP-39;GP39;HC-gp39;HCGP-3P;YK-40;YKL-40;YKL40;YYL-40;hCGP-39
Species	Human
Expression Host	E.coli
Sequence	Tyr 22-Thr 383
Accession	P36222
Calculated Molecular Weight	41.4 kDa
Observed molecular weight	40 kDa
Tag	C-His

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Chitinase-3-like protein 1 (CHI3L1) also known as YKL-40, is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. Elevated levels of CHI3L1 are associated with disorders exhibiting increased connective tissue turnover, such as rheumatoid, arthritis, osteoarthritis, scleroderma, and cirrhosis of liver, but is produced in cartilage from old donors or patients with osteoarthritis. CHI3L1 is abnormally expressed in the hippocampus of subjects with schizophrenia and may be involved in the cellular response to various environmental events that are reported to increase the risk of schizophrenia.

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