Human RNASET2 Protein (His Tag)

Catalog Number: **13509-H08B**

General Information

Gene Name Synonym:

bA514O12.3; RNASE6PL; RP11-514O12.3

Protein Construction:

A DNA sequence encoding the human RNASET2 isoform 1 (O00584-1) (Met 1-His 256) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Asp 25

Molecular Mass:

The secreted recombinant human RNASET2 comprises 242 amino acids and has a predicted molecular mass of 28.5 kDa. The apparent molecular mass of rh RNASET2 is approximately 35 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

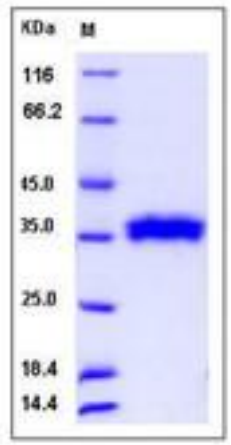
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

RNASET2 (ribonuclease T2) is an enzyme which belongs to the RNase T2 family. It is highly expressed in the temporal lobe and fetal brain. RNASET2 gene is a novel member of the Rh/T2/S-glycoprotein class of extracellular ribonucleases. It is a single copy gene that maps to 6q27, a region associated with human malignancies and chromosomal rearrangement. Defects in RNASET2 are the cause of leukoencephalopathy cystic without megalencephaly. An infantile-onset syndrome of cerebral leukoencephalopathy. Affected newborns develop microcephaly and neurologic abnormalities including psychomotor impairment, seizures and sensorineural hearing impairment. The brain shows multifocal white matter lesions, anterior temporal lobe subcortical cysts, pericystic abnormal myelination, ventriculomegaly and intracranial calcifications.

References

1.Acquati F, *et al.* (2011) A Molecular signature induced by RNASET2, a tumor antagonizing gene, in ovarian cancer cells. Oncotarget. 2(6):477-84. 2.Campomenosi P, *et al.* (2011) Comparison of the baculovirus-insect cell and Pichia pastoris heterologous systems for the expression of the human tumor suppressor protein RNASET2. Biotechnol Appl Biochem. 58(1):39-49. 3.Monti L, *et al.* (2008) RNASET2 as a tumor antagonizing gene in a melanoma cancer model. Oncol Res. 17(2):69-74.