

CST5, 26-142aa, Human, His tag, Insect cell

Cat.NO.: TP01751

3th Edition

Synonyms:Cystatin D

Description:CST5, also known as Cystatin-D, is a novel member of the cystatin superfamily. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. Two alleles of the cystatin D gene (CST5), encoding protein variants with either Cys or Arg as residue 26 in their 122-residue polypeptide chains, are present in the population. Recombinant human CST5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form:Liquid. In phosphate buffered saline (pH7.4) containing 10% glycerol.

Molecular Weight:14.36kDa (123aa) (13.5-18kDa in SDS-PAGE under reducing conditions.)

Sequences:

QSRTLAGGIHATDLNDKSVQRALDFAISEYNKVINKEDEYYSRPLQVMAAYQQIVGGVNYFFNVKFGRTTCTKSQPN
LDNCPFNDQPKLKEEEFCSFQINEVPWEDKISILNYKCRKVHHHHHH

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.