

OPTC, 20-332aa, Human, His tag, E.coli

Cat.NO.: TP03254

3th Edition

Synonyms:Opticin, Opticin, OPT

Description:Opticin belongs to class III of the small leucine-rich repeat protein (SLRP) family. Members of this family are typically associated with the extracellular matrix. Opticin is present in significant quantities in the vitreous of the eye and also localizes to the cornea, iris, ciliary body, optic nerve, choroid, retina, and fetal liver. Opticin may noncovalently bind collagen fibrils and regulate fibril morphology, spacing, and organization. The opticin gene is mapped to a region of chromosome 1 that is associated with the inherited eye diseases age-related macular degeneration (AMD) and posterior column ataxia with retinosa pigmentosa (AXPC1). Recombinant human OPTC protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol

Molecular Weight:37.6 kDa (336aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSASLPRKERKRREEQMPREGDSFEVLPLRNDVLNPDNYGEVIDLSNYEELTD
YGDQLPEVKVTS LAPATSISPAKSTTAPGTPSSNPTMTRPTTAGLLSSQPNHGLPTCLVCVCLGSSVYCDDIDLEDI
PPLPRRTAYLYARFNIRIRAEDFKGLTKLKRIDLSSNLISSIDNDAFRLLHALQDLILPENQLEALPVLPSGIEFLDVR
LNRLQSSGIQPAAFRAMEKLQFLYLSDNLLDSIPGPLPLSLRSVHLQNNLIETMQRDVFCDPEEHKHTRRQLEDIRLD
GNPINLSLFPSAYFCLPRLPIGRFT

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

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.