

**AR51734PU-N****Human Opticin (20-332, His-tag) - Purified****Alternate names:**

OPT, OPTC, Oculoglycan

**Quantity:**

0.5 mg

**Concentration:**

0.5 mg/ml (determined by Bradford assay)

**Background:**

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).

**Uniprot ID:**[Q9UBM4](#)**NCBI:**[NP\\_055174](#)**GeneID:**[26254](#)**Species:**

Human

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol.**Description:**

Recombinant human OPTC protein, fused to His-tag at N-terminus, was expressed in E.coli.

**AA Sequence:**

MGSSHHHHHH SGLVPRGSH MGSASLPRKE RKRREEQMPR EGDSFEVLPL RNDVLNPDNY  
GEVIDLSNVE ELTDYGDQLP EVKVTSLAPA TSISPAKSTT APGTPSSNPT MTRPTTAGLL  
LSSQPNHGLP TCLVCVCLGS SVYCDDIDLE DIPPLPRRTA YLYARFNRI RIRAEDFKGL  
TKLKRIDLSN NLISSIDNDA FRLHALQDL ILPENQLEAL PVLPSGIEFL DVRLNRLQSS  
GIQPAAFRAM EKLQFLYLSL NLLDSIPGPL PLSLRSVHLQ NNLIETMQRD VFCDPEEHKH  
TRRQLEDIRL DGNPINLSLF PSAYFCLPRL PIGRFT

**Molecular weight:** 37.6 kDa (336aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

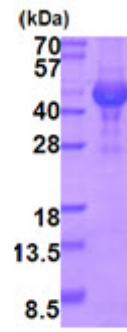
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

Friedman J.S., et al. (2002) Hum. Mol. Genet. 11:1333-1342

Pictures:



15% SDS-PAGE (3ug)