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## Product Data Sheet

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Product Name: OPTC Human  
 Cat. No.: GP24101  
 Batch No.: 1

### Product Data

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Opticin; Oculoglycan; OPT.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSASLPRKE RKRREEQMPR EGDSFEVLPL<br>RNDVLNPDNY GEVIDLSNYEELTDYGDQLP EVKVTSLAPA TSISPAKSTT<br>APGTPSSNPT MTRPTTAGLL LSSQPNHGLP TCLVCVCLGSSVYCDDIDLE<br>DIPPLPRRTA YLYARFNRI RIRAEDFKGLTKLKRIDLSN NLISSIDNDA<br>FRLHALQDL ILPENQLEAL PVLPSGIEFLDVRLNRLQSS GIQPAAFRAM<br>EKLQFLYLSN NLLDSIPGPL PLSLRSVHLQ NLIETMQRD<br>VFCDPEEHKHTRRQLEDIRL DGNPINLSLF PSAYFCLPRL PIGRFT. |                    |                         |
| Formulation         | OPTC protein solution (0.5mg/ml) containing 20mM Tris-HCl(pH8.0) and 10% glycerol.  |                    |                         |

### Introduction

Opticin also known as OPTC is a member of the class III of the small leucine-rich repeat protein (SLRP) family. Members of this family are usually linked with the extracellular matrix. OPTC is attended 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. OPTC might noncovalently bind collagen fibrils and regulate fibril morphology, spacing and organization. OPTC is mapped to an area of chromosome 1 which is linked with the inherited eye disease age-related macular degeneration (AMD) and posterior column ataxia with retinosa pigmentosa (AXPC1).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

OPTC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 336 amino acids (20-332 a.a) and having a molecular mass of 37.6kDa. OPTC is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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