



# Recombinant Human Nyctalopin (NYX)

<b>Product Code</b>	CSB-EP016237HU-B
<b>Abbreviation</b>	NYX
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9GZU5
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	VGACARA CPAACACSTV ERGCSVRCDR AGLLRVPAEL PCEAVSIDLD RNGLRFLGER AFGTLPSLRR LSLRHNNLSF ITPGAFKGLP RLAELRLAHN GDLRYLHART FAALSRLRRL DLAACRLFSV PERLLAELPA LRELAAFDNL FRRVPGALRG LANLTHAHLE RGRIEAVASS SLQGLRRLRS LSLQANRVRA VHAGAFGDCG VLEHLLLNDN LLAELPADAF RGLRRLRTLN LGGNALDRVA RAWFADLAEL ELLYLDRNSI AFVEEGAFQN LSGLLALHLN GNRLTVLAWV AFQPGFFLGR LFLFRNPWCC DCRLEWLRDW MEGSGRVTDV PCASPGSVAG LDLSQVTFGR SSDGLCVDPE ELNLTSSPG PSPEPAATTV SRFSSLLSKL LAPRVPVEEA ANTTGGLANA SLSDSLSSRG VGGAGRQPWF LLASCLLPSV AQHVVFGLQM D
<b>Source</b>	E.coli
<b>Target Names</b>	NYX
<b>Protein Names</b>	Recommended name: Nyctalopin
<b>Expression Region</b>	24-481
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	The product of this gene belongs to the small leucine-rich proteoglycan (SLRP) family of proteins. Defects in this gene are the cause of congenital stationary night blindness type 1 (CSNB1), also called X-linked congenital stationary night blindness (XLCSNB). CSNB1 is a rare inherited retinal disorder characterized by impaired scotopic vision, myopia, hyperopia, nystagmus and reduced visual acuity. The role of other SLRP proteins suggests that mutations in this gene disrupt developing retinal interconnections involving the ON-bipolar cells, leading to the visual losses seen in patients with complete CSNB.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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