

OTL 102

OTL-102 is indicated for X-linked Chronic Granulomatous Disease. NADPH oxidase gene therapy (Autologous CD34+ cells transduced with lentiviral vector containing GP91PHOX gene). Orchard Therapeutics presented the first demonstration that its experimental gene therapy OTL-102 for the treatment of X-Linked Chronic Granulomatous Disease (X-CGD) leads to sustained levels of functioning neutrophils after 12 months. OTL-102 may provide a new treatment option for X-CGD patients to improve the quality and length of their lives, escaping the chronic infections and inflammation associated with the disease.

X-CGD is a severe, life-threatening disease that leads to a significantly reduced quality and length of life in affected patients. Current treatment options, including prophylactic antibiotics, antifungals, and hematopoietic stem cell transplants, all have significant associated risk and limitations,” said Kohn. “By providing the first-ever demonstration that autologous hematopoietic stem cell gene therapy has the potential to lead to sustained levels of functioning neutrophils and thereby a long-term clinical benefit

Cytochrome B-245 Heavy Chain (CUI C1429424)

Terms & Properties

Synonym Details

Relationships

By Source

View All

Terms & Properties

Concept Unique Identifier (CUI): C1429424

NCI Thesaurus Code: C106596 ([see NCI Thesaurus info](#))

Semantic Type: Amino Acid, Peptide, or Protein

Semantic Type: Biologically Active Substance

NCIt Definition: Cytochrome B-245 heavy chain (570 aa, ~65 kDa) is encoded by the human CYBB gene. This protein plays a role in the microbicidal activity of phagocytes.

Synonyms & Abbreviations: ([see Synonym Details](#))

(AA).CYBB.0

CGD91-Phox

CYBB protein, human

CYBB

Cytochrome B(558) Subunit Beta

Cytochrome B-245 Heavy Chain

cytochrome b-245, beta polypeptide (chronic granulomatous disease) protein, human

cytochrome b-245, beta polypeptide (chronic granulomatous disease)

Cytochrome B558 Subunit Beta

EC 1.6.3

gp91-phox protein, human

gp91phox protein, human

Heme-Binding Membrane Glycoprotein Gp91phox

NADPH oxidase 2, human

NADPH Oxidase 2

Neutrophil Cytochrome B 91 KDa Polypeptide

NOX2 protein, human

P22 Phagocyte B-Cytochrome

Superoxide-Generating NADPH Oxidase Heavy Chain Subunit

X-CGD protein, human

X-chronic granulomatous disease protein, human

XCGD protein, human

External Source Codes:

NCI Thesaurus Code C106596 ([see NCI Thesaurus info](#))

OMIM Number 300481 ([see OMIM info](#))

Swiss Prot P04839 ([see UniProt/Swiss-Prot info](#))

Other Properties: [?](#)

| Name | Value |
|------|-------|
|------|-------|

| | |
|---------------------|---|
| AA_REFSEQ | NP_000388.2 |
| Axis | H_PROTEIN |
| Contributing_Source | CTRP |
| FR | 816 |
| HM | D008562 |
| HM | D019255 |
| Initial_Release | 2007.12 |
| MDA | 19880817 |
| MMR | 20141104 |
| RN | 0 |
| SC | 1 |
| SOS | RefSeq NM_000397 |
| SRC | Hematol Oncol Clin North Am 1988;2(2):225 |
| TERMUI | T000870520 |
| TERMUI | T188614 |
| TERMUI | T188615 |
| TERMUI | T188616 |
| TERMUI | T188617 |
| TERMUI | T579507 |
| TERMUI | T579508 |
| TERMUI | T581253 |
| TERMUI | T618297 |
| TH | NLM (1988) |
| TH | NLM (2004) |
| TH | NLM (2014) |

Additional Concept Data: *(none)*

URL to Bookmark: [https://ncim.nci.nih.gov/ncimbrowser/ConceptReport.jsp?dictionary=NCI Metathesaurus&code=C1429424](https://ncim.nci.nih.gov/ncimbrowser/ConceptReport.jsp?dictionary=NCI%20Metathesaurus&code=C1429424)