

41690. Human Galectin-3

Origin:	Recombinant	Cat. No.:	41690
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	E.coli	Purity:	>95%
Other names:	Gal-3, MAC-2, CBP 35, lectinL-29, AGER 3	Species:	Human

Description

Expressed in E.coli with total 293AA. Mw: 31.1 KDa (calculated).
N-terminal 6xHis-tag, EK recognition site and TEV cleavage site, 44 extra AA (highlighted).
Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

Galectin-3 is expressed by a wide range of cell types including activated T cells, tumor cells, macrophages, osteoclasts, fibroblasts, and epithelial cells.
Galectin-3 has specific binding affinity for beta-galactoside sugar moieties and has functional roles during development, innate immunity, cell apoptosis, and tumor metastasis. Galectin-3 is associated with cancer, heart failure, stroke, and inflammation.

Amino Acid Sequence

MRGSHHHHHHGMASMTGGQMQGRDLYDDDDKDRWGSENL^{YFQGAADN^YFLHDALSGSGNP}
NPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPP^YGAYPGQAPP^YGAPGAYPGAPAGVY
PGPPSGPGAYPSSGQPSATGAYPATGPY^{GAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRI}
ALDFQRGNDVAFHFNPRFNENRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQVLVEPDHF

Endotoxin Level: <0.01 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized at 1 mg/mL in PBS.

Reconstitution: Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage: Store lyophilized protein at -20°C. Aliquot reconstituted protein and store at -80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

SDS-PAGE gel

