Phaseolus vulgaris Lectin (PHA-E) - Pure

CD BioSciences
Plant Protein

Cat *PL00586*

Size *5 mg/10 mg/50 mg*

Sugar Specificity
Complex N-Glycans

Description
Affinity purified phaseolus lectin (PHA-E) is a tetramer glycoprotein responsible for the erythrocyte agglutination properties of the PHA portion. It is carbohydrate-specific for oligosaccharides and bovine thyroglobulin or acetic acid elutes. PHA-E can bind to human red blood cells and lymphocytes and is specific for blood type a (-SA). The PHA-E receptor on normal lymphocytes is 5 times that on red blood cells. The crystal structure of the ligand-free PHA-E has the typical legume lectin fold, which is characterized by two antiparallel - sheets and two short - helices, and contains a GlcNAc residue of an n-chain glycan. Asparagine-linked erythrocyte glycopeptides are inhibitors of PHA-E-induced agglutination and mitosis and become inactive if treated with galactosidase. PHA-E binds to diggalactosylated and segmented N-glycan. This lectin is widely used as a biochemical tool for the detection of GlcNAc and gal glycoproteins.

Abbreviation
PHA-E

Material Source
Kidney bean

Conjugate
None

Purity
High Purity Grade

Shelf Life
2 years

Blood Group Specificity
A(-SA)

Sugar Specificity
Complex N-Glycans

Inhibiting or Eluting Sugar
Bovine Thyroglobulin, Acetic Acid

Divalent Ions
Ca++, Mn++

Mitogenic Activity
Yes

Format
Lyophilized

Storage
-20°C

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
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Cat *PL00586*

Size *5 mg/10 mg/50 mg*

Molecular Weight

126 kDa

Hazardous Shipping

Non-hazardous

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