



Anti-FUT3 (clone hu3S193)-AcBut-CalichDMH ADC

Cat. No: ADC-W-459

Similar to: CMD-193

PRODUCT INFORMATION

This ADC product is comprised of an anti-FUT3 monoclonal antibody (clone hu3S193) conjugated via a AcBut linker to CalichDMH. The CalichDMH is targeted to certain cancers by immunorecognition and delivered into cancer cells via receptor mediated endocytosis. Within the cell, CalichDMH binds to DNA, causes DNA damage.

ADC Target

Name:	FUT3
Alternative Names:	FUT3; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); LE; Les; FT3B; CD174; FucT-III; galactoside 3(4)-L-fucosyltransferase; Lewis FT; fucosyltransferase III; alpha-(1,3/1,4)-fucosyltransferase; blood group Lewis alpha-4-f
Target Entrez Gene ID:	2525
Target UniProt ID:	A8K737
Overview:	The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene.

ADC Antibody

Overview: Humanized Anti-FUT3 IgG1 Antibody, hu3S193

Generic name: hu3S193

Species Reactivity: Human

ADC Linker

Name: AcBut [- (4' acetyl phenoxy) butanoic acid]

Description: Disulfide Linkers, are extensively exploited as a chemically labile linkage. Since the release of disulfide-linked drugs requires a cytoplasmic thiol cofactor, such as glutathione (GSH). Disulfides maintain stable at physiological pH and only when ADCs are internalized inside cells, the cytosol provides reducing environment including intracellular enzyme protein disulfide isomerase, or similar enzymes, drugs can be released.

ADC payload drug

Name: CalichDMH

Description: Calicheamicin, produced by prokaryotic microorganisms, are a group of DNA cleaving agents with similar structure that binds in the minor groove of DNA in a relatively sequence-specific manner.

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