Creative Enzymes
Diagnostic Enzymes

Recombinant N-Acetylneuraminic Acid Aldolase (NAL)

Product Information

Cat#	BDE-052
Description	N-acetylneuraminic acid aldolase (NAL) converts N-acetylneuraminic acid to N-acetyl-D-mannosamine and pyruvate. Sialic acid (SA) is a key tumor marker, and enzymatic SA detection is rapid, sensitive, and automatable. NAL is a critical enzyme in SA assay kits, where pyruvate generation drives the detection reaction.
Applications	Used in sialic acid detection kits for the analysis of tumor and inflammation-related biomarkers.
Enzyme Commission Number	EC 4.1.3.3
Form	White lyophilized powder
Source	Recombinant protein expression
Activity	33 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the reaction of N-acetylneuraminic acid to produce 1 μmol of pyruvate per minute under specified assay conditions (pH 7.7, 37 °C).
Molecular Weight	35 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Storage Buffer	100 mM phosphate buffer, pH 7.4
Storage	Store at 4°C for one year; store at -20°C for two years (it is recommended to store in aliquots to avoid repeated freeze-thaw cycles that may affect protein activity).

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