Tribioscience

N-Acetylneuraminic acid aldolase, Enzyme Activity

	Catalog	Unit
	TBP0046-25U	25 U
	TBP0046-50U	50 U
Preparation and Specifica	tion	
Appearance: Yellowish amo		
Activity: Grade III 15U/mg-	solid or more (30U/mg-protein or	more) (containing approx. 30% of stabilizers)
<u>Contaminants:</u> Catalase ≤1.0)%	
NADH oxid	ase $\le 1.0 \times 10^{-30}$ N-Ac	etylneuraminate pyruvate-lyase(EC 4.1.3.3) ^{1 ~4})
Stabilizers: Mannitol, EDTA	N-AcetyIn	euraminate
Structure: 3 subunits (approx	² 8,000 ³ M (N-Acetylneuraminic acid) x. 35,000) per enzyme molecule	
Inhibitors: p-Chloromercuri	benzoate, SDS, Hg , Ag	
<u>Optimum pH:</u> 7.5-8.0		
Optimum temperature: 70°C		
<u>pH Stability:</u> pH 6.0–9.0 (10	- /	
Thermal stability: below 65°	°C (pH 7 5 30min)	

Applications

This enzyme is useful for enzymatic determination of N-acetylneuraminic acid and sialic acid when coupled with the related enzymes in clinical analysis. 5^{-7} For industrial use, this enzyme is useful for enzymatic synthesis of sialic acid.

For research use only