



Nicotinamide [BSA] (DAG3371)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Nicotinamide, BSA-conjugated
Specificity	Nicotinamide (vitamin PP) conjugated with bovine serum albumin (BSA).
Species	N/A
Conjugate	BSA
Applications	immunohistochemistry and immunocytochemistry
Reconstitution	Reconstituted in deionized water (250 µg)
Format	Lyophilized
Size	1 mg
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	<p>Vitamin B3 is a water-soluble vitamin whose derivatives such as NADH, NAD, NAD⁺, and NADP play essential roles in energy metabolism in the living cell and DNA repair. The designation Vitamin B3 also includes the amide form, nicotinamide or niacinamide. Severe lack of Vitamin B3 causes the deficiency disease pellagra, whereas a mild deficiency slows down the metabolism decreasing cold tolerance. The liver can synthesize Vitamin B3 from the essential amino acid tryptophan (see below), but the synthesis is extremely slow and requires vitamin B6; 60 mg of tryptophan are required to make one milligram of Vitamin B3. Bacteria in the gut may also perform the conversion but are inefficient.</p>
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Keywords

Nicotinamide; niacinamide; nicotinic acid amide; vitamin B3; niacin; axer; Bonyl; calosen;
Equiproxen; Floginax; Laraflex; Naixan
