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## Product Datasheet

**Fludarabine, CAS [[21679-14-1]]**  
**FBM-10-5047**

Article Name	Fludarabine, CAS [[21679-14-1]]
Biozol Catalog Number	FBM-10-5047
Supplier Catalog Number	10-5047
Alternative Catalog Number	FBM-10-5047-10MG, FBM-10-5047-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DNA synthesis inhibitor...
Molecular Weight	285.23
Purity	98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[21679-14-1]
Formula	C10H12FN5O4
Application Notes	<p>A synthetic adenosine analog that inhibits DNA biosynthesis and is a clinically useful antineoplastic agent.<sup>1</sup> In cells fludarabine accumulates as its 5-triphosphate (F-ara-ATP) for which the rate-limiting step in formation is the conversion of fludarabine to its monophosphate.<sup>2</sup> F-ara-ATP has multiple mechanisms of action including inhibition of ribonucleotide reductase, DNA polymerase, ligase and primase.<sup>2</sup> A frequently used agent in myeloablative conditioning regimens for allogeneic hematopoietic cell transplantation.<sup>3</sup> Immunosuppressive effects are mediated via inhibition of TNF-stimulated production of IL-2 and IFN- through inactivation of NFB.<sup>4</sup> Antagonist at adenosine A1 receptors.<sup>5</sup></p>