

Title (en)  
PROCESS FOR PREPARING MKC-442

Title (de)  
VERFAHREN ZU HERSTELLUNG VON MKC-442

Title (fr)  
PROCEDE DE PREPARATION DE MKC-442

Publication  
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Application  
**EP 00925979 A 20000413**

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Abstract (en)  
[origin: WO0061566A1] A process for preparing 6-benzyl-1-(ethoxymethyl)-5-isopropyluracil, which is also known as MKC-442, is disclosed. The process comprises synthesizing an isopropyl ss-ketoester, such as ethyl-2-isopropyl-3-oxo-4-phenyl-butyrate, using any known method, including from benzyl cyanide and ethyl-2-bromo-3,3-dimethyl-propionate with activated zinc in a Reformatsky reaction. The ethyl-2-isopropyl-3-oxo-4-phenyl-butyrate is then condensed with thiourea in one of two ways. First, the ethyl-2-isopropyl-3-oxo-4-phenyl-butyrate is condensed with thiourea in a two-base system in the presence of a solvent. A second process for condensing the ethyl-2-isopropyl-3-oxo-4-phenyl-butyrate with thiourea is conducted in the presence of potassium t-butoxide to form a benzyl isopropyl thiouracil, which is desulfurized in process step (B). The benzyl isopropyl uracil resulting from either process is then alkoxyalkylated in process to form MKC-442.

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