```
check_sufficient_PBPK_data <- function(chem.name=NULL,chem.CAS=NULL,species)
{
  if (is.null(chem.CAS) & is.null(chem.name))
  {
    stop("Must specifiy compound name or CAS.\n")
  } else if ((!is.null(chem.CAS) & !any(Wetmore.data[,"CASRN"]==chem.CAS)) & (!is.null(chem.name) &
!any(Wetmore.data[,"Compound"]==chem.name)))
  {
    stop("Compound not found.\n")
  } else {
    if (!is.null(chem.CAS)) chem.name <-
chem.physical_and_invitro.data[chem.physical_and_invitro.data[,"CAS"]==chem.CAS,"Compound"][1]
    else chem.CAS <-
chem.physical_and_invitro.data[chem.physical_and_invitro.data[,"Compound"]==chem.name,"CAS"][1]

    chem.physical_and_invitro.data.index <- which(chem.physical_and_invitro.data$CAS==chem.CAS)
    for (this.param in c("MW","logP","pKa"))
      if
(is.na(as.numeric(chem.physical_and_invitro.data[chem.physical_and_invitro.data.index,this.param])))
      {
        warning(paste("Incomplete phys-chem data for ",chem.name," -- missing ",this.param,"."))
        return(FALSE)
      }
    for (this.param in c("Clint","Fub"))
    {
      this.col.name <- tolower(paste(this.param,species))
      if (!(this.col.name %in% tolower(colnames(chem.physical_and_invitro.data))))
      {
        warning(paste("No in vitro PK data for ",species,".",sep=""))
        return(FALSE)
      } else {
        this.col.index <- which(tolower(colnames(chem.physical_and_invitro.data))==this.col.name)
        if
(is.na(as.numeric(chem.physical_and_invitro.data[chem.physical_and_invitro.data.index,this.col.name])))
        {
          warning(paste("Incomplete in vitro PK data for ",chem.name," in ",species," -- missing
",this.param,"."))
          return(FALSE)
        }
      }
    }
    return(TRUE)
  }
}
```